

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method for bonding a plurality of non-magnetic members comprising the steps of:

(1) mating non-magnetic members via an uncured adhesive interposed between their surfaces to be bonded;

(2) applying pressure to the mated portions of said non-magnetic members between a pressing magnet jig and a pressure-receiving, soft-magnetic jig; and

(3) curing said adhesive while applying pressure, wherein a cushioning member is interposed only on a single side of said mated portions of said non-magnetic members between a pressing surface of said pressing magnet jig and outside surfaces of the mated portions of said non-magnetic members so as to subject the whole bonding surfaces to contacting uniformly with said adhesive sheet ~~by disposing said cushioning member on one side of said mated portions of said non-magnetic members.~~

Claim 2-18 (canceled).

19. (currently amended): A method for bonding a plurality of non-magnetic members comprising the steps of:

(1) mating non-magnetic members via an uncured adhesive interposed between their surfaces to be bonded;

(2) applying pressure to the mated portions of said non-magnetic members between a pressing magnet jig and a pressure-receiving, soft-magnetic jig; and

(3) curing said adhesive while applying pressure, wherein a pair of non-magnetic members are bonded together, and said non-magnetic members are half-cylindrical skin members made of a fiber-reinforced composite material for constituting a fuselage of aircraft so as to reduce the weight of transport vehicles including aircraft, and

wherein a cushioning member is interposed only on a single side of said mated portions of said non-magnetic members between a pressing surface of said pressing magnet jig and outside surfaces of the mated portions of said non-magnetic members so as to subject the whole bonding surfaces to contacting uniformly with said adhesive sheet ~~by disposing said cushioning member on one side of said mated portions of said half-cylindrical skin members as said non-magnetic members,~~

wherein an applying pressure for curing is in the range of 0.025 kg/cm² to 0.8 kg/cm²,
and wherein a thermosetting temperature of said adhesive sheet is in a range of 100°C to 130°C,
and a heat resistance temperature of said magnet is not less than 130°C.

20. (previously presented): The method for bonding a plurality of non-magnetic members according to claim 1, wherein said adhesive is a thermosetting adhesive in the form of a sheet.

21. (previously presented): The method for bonding a plurality of non-magnetic members according to claim 19, wherein said adhesive is a thermosetting adhesive in the form of a sheet.

22. (previously presented): The method for bonding a plurality of non-magnetic members according to claim 1, wherein said pressing magnet jig comprises a handle, a jig body made of a soft-magnetic material, and magnet members.

23. (previously presented): The method for bonding a plurality of non-magnetic members according to claim 19, wherein said pressing magnet jig comprises a handle, a jig body made of a soft-magnetic material, and magnet members.

24. (currently amended): A method for bonding a plurality of non-magnetic members comprising the steps of:

(1) mating non-magnetic members via an uncured adhesive interposed between their surfaces to be bonded;

(2) applying pressure to the mated portions of said non-magnetic members between a pressing magnet jig and a pressure-receiving, soft-magnetic jig; and

(3) curing said adhesive while applying pressure, wherein a cushioning member is interposed only on a single side of said mated portions of said non-magnetic members between a pressing surface of said pressing magnet jig and outside surfaces of the mated portions of said non-magnetic members so as to subject the whole bonding surfaces to contacting uniformly with

said adhesive sheet ~~by disposing said cushioning member on one side of said mated portions of said non-magnetic members,~~

wherein an applying pressure for curing is in the range of 0.025 kg/cm^2 to 0.8 kg/cm^2 ,
and wherein a thermosetting temperature of said adhesive sheet is in a range of 100°C to 130°C ,
and a heat resistance temperature of said magnet is not less than 130°C .

25. (previously presented): The method for bonding a plurality of non-magnetic members according to claim 24, wherein a rate of heating or rate of cooling is a constant rate of $2\text{-}4^\circ\text{C/minute}$.

26. (new): The method for bonding a plurality of non-magnetic members according to claim 1, wherein said cushioning member is a tetrafluorocarbon sheet.

27. (new): The method for bonding a plurality of non-magnetic members according to claim 19, wherein said cushioning member is a tetrafluorocarbon sheet.

28. (new): The method for bonding a plurality of non-magnetic members according to claim 24, wherein said cushioning member is a tetrafluorocarbon sheet.

29. (new): The method of claim 1, wherein said cushioning member comprises two separate parts each interposed on the single side of the mated portions of the non-magnetic member between the pressing surface of the pressing magnetic jig and the outside surfaces of the mated portions of the non-magnetic members, said two separate parts being spaced apart sufficiently from each other to subject the whole bonding surfaces to contact uniformly.

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30. (new): The method of claim 19, wherein said cushioning member comprises two separate parts each interposed on the single side of the mated portions of the non-magnetic member between the pressing surface of the pressing magnetic jig and the outside surfaces of the mated portions of the non-magnetic members, said two separate parts being spaced apart sufficiently from each other to subject the whole bonding surfaces to contact uniformly.

31. (new): The method of claim 24, wherein said cushioning member comprises two separate parts each interposed on the single side of the mated portions of the non-magnetic member between the pressing surface of the pressing magnetic jig and the outside surfaces of the mated portions of the non-magnetic members, said two separate parts being spaced apart sufficiently from each other to subject the whole bonding surfaces to contact uniformly.